City of Florida City 2011 Annual Drinking Water Quality Report

Este informe contiene informacion muy importante sobre agua de beber. Traduzcalo o hable con alguien que lo entienda bien. Si usted quiere este reporte de Calidad de Agua en Español, por favor llamar a este numero de telefono 305-248-6855.

We're pleased to present to you this year's Annual Drinking Water Quality Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. Our water source is groundwater from the Biscayne Aquifer. The water is chlorinated for disinfection.

If you have any questions about this report or concerning your water utility, please contact the Utilities office at 305-248-6855. We encourage our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled meetings. The City of Florida City routinely monitors for contaminants in your drinking water according to Federal and State laws, rules, and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2011. Data obtained before January 1, 2011, and presented in this report are from the most recent testing done in accordance with the laws, rules, and regulations.

In the table below, you may find unfamiliar terms and abbreviations. To help you better understand these terms we've provided the following definitions:

<u>Maximum Contaminant Level or MCL</u>: The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal or MCLG: The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Action Level (AL): The concentration of a contaminant that, if exceeded, triggers treatment or other requirements that a water system must follow. Maximum residual disinfectant level or MRDL: The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum residual disinfectant level goal or MRDLG: The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

"ND" means not detected and indicates that the substance was not found by laboratory analysis.

Parts per million (ppm) or Milligrams per liter (mg/l): one part by weight of analyte to 1 million parts by weight of the water sample.

Parts per billion (ppb) or Micrograms per liter (µg/L): one part by weight of analyte to 1 billion parts by weight of the water sample.

Picocurie per liter (pCi/L): measure of the radioactivity in water.

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Sodium (ppm)

A Source Water Assessment was conducted by FDEP for our water system. The results showed 5 petroleum storage tanks (moderate concern level) and hazardous waste (low concern level) as potential contamination sources. SWAPP results are available at FDEP SWAPP web site: www.dep.state.fl.us/swapp.

All drinking water, including bottled drinking, may be reasonably expected to contain at least small amounts of some contaminants. It's important to remember that the presence of these contaminants does not necessarily pose a health risk".

Radioactive Contaminants											
Contaminant and Unit of Measurement	Dates of Sampling (mo./yr.)	MCL Violation Y/N	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination				
Alpha emitters (pCi/L)	7/08	N	2.6	N/A	0	15	Erosion of natural deposits				
Radium 226+228 or combined radium (pCi/L)	7/08	N	1.5	N/A	0	5	Erosion of natural deposits				

Inorganic Contaminants Contaminant and Dates of MCL Level Range of MCLG MCL Unit of sampling Violation **Likely Source of Contamination** Detected Results Measurement (mo./yr.) Y/N Discharge of drilling wastes; discharge from Barium (ppm) 6/11 0.016 N/A 2 metal refineries; erosion of natural deposits Erosion of natural deposits: water additive which Fluoride (ppm) promotes strong teeth when at optimum levels 4 6/11 Ν 0.119 N/A 4 between 0.7 and 1.2 ppm; discharge from fertilizer and aluminum factories 0.72-Runoff from fertilizer use; leaching from septic Nitrate (as Nitrogen) 1/11, 6/11 Ν 1.06 10 10 tanks, sewage; erosion of natural deposits 1.25 (ppm)

Stage 1 Disinfectant/Disinfection By-Product (D/DBP) Contaminants

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For chlorine, the level detected is the highest running annual average, computed quarterly, of monthly averages of all samples collected. For haloacetic acids and TTHM, the level detected is the average of all samples taken during the year.

N/A

N/A

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Salt water intrusion, leaching from soil

Contaminant and Unit of Measurement	Dates of sampling (mo./yr.)	MCL Violation Y/N	Level Detected	Range of Results	MCL MRI			MCL or MRDL	Likely Source of Contamination		
Haloacetic Acids (five) (HAA5) (ppb)	8/11	N	10.38	47.3-84.5	N.	NA		CL = 60	By-product of drinking water disinfection		
TTHM [Total trihalomethanes] (ppb)	8/11	N	65.5	5.4-13	N.	NA		CL = 80	By-product of drinking water disinfection		
Chlorine (ppm)	Monthly 2011	N	1.11	0.4-1.3		MRDLG = 4		RDL = 4.0	Water additive used to control microbes		
Lead and Copper (Tap Water)											
Contaminant and Unit of Measurement	Dates of sampling (mo./yr.)	AL Violation Y/N	90th Percentile Result	No. of samp sites exceed the AL	ling MCI		LG	AL (Action Level)	Likely Source of Contamination		
Copper (tap water) (ppm)	9/11	N	0.43	0		1.3		1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives		
Load (tan water) (nnh)	0/11	N	1	0		0	•	15	Corrosion of household plumbing		

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The Florida City Water Treatment Plant is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

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systems, erosion of natural deposits

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

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Lead (tap water) (ppb)

- (A) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- (B) Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- (C) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- (D) Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- (E) Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the EPA prescribes regulations, which limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).